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Digital Video Recorder
MBB-10

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Safety Cautions

This chapter provides safety information to prevent misuse or abuse of the Product which may lead to the risks of personal injuries or physical damages by electric shock, fire or explosion.
Please read this chapter before use.

★ Contents of this User's Manual may differ from one to another version of MBB-10 software, and are subject to change without prior notice to users.

★ Illustrations and pictures contained in this Manual may be different to the actual product.
★Please refer for firmware upgrade (P26)

Warning

Do not install, dismantle or convert the Product at your will. It may cause product breakdown, electric shock or fire. Please contact the Service Center for repair.

Do not operate the Product while driving. It may cause a road accident. Park the vehicle in the designated parking area to operate the Product.

If you experience a trouble with the Product, do not attempt to operate the Product. If any foreign material or water got into the Product, or there is smoke from the Product, contact the Service Center for repair.

Take care that the power cable of the Product is not damaged or cut during installation of other electric device inside the car. It may cause product breakdown, electric shock or fire. Please contact the Service Center for repair.

Do not change the installation position of the Product. It may result in creation of blind spots in recording, and you may apportion blame for an accident.

Always use the correct type of fuse.

Wrong type of fuse may cause fire.

For connection to the main power using a power cable, let an authorized technician to do the work. The connection may vary by car, and wrong connection may lead to breakdown of the car or the Product.

Caution

Do not remove the SD card while the power is connected. It may cause breakdown of the card.

Do not touch the SD card with oily or wet hand. It may cause damage to or breakdown of the Product.

Do not insert any foreign material in the opening of the card slot on the Product. It may cause blockage or breakdown of the Product.

Take care that connection is properly made if the cigar jack is in use. Improper connection may cause data loss or card failure.

Communication error or GPS transmission error may be experienced if the windshield is metal coated.

Do not use water, benzene or alcohol to clean the Product. It may cause Product failure. Use a dry soft cloth.

Do not exert excessive impact on the Product. It may cause damage to or breakdown of the Product

Always use the original or recommended card only to prevent data loss.

The GPS module requires a warming up period for the initial operation. It may take from several seconds to a few minutes upon turning the power ON depending on the transmission environment.

Cautions

1. Do not install, dismantle or convert the Product at your will.
2. If any part is used in addition to the parts provided by the Company, please use the original or the Company recommended parts only.
3. Do not operate the Product outside the recommended power range.
4. Remove any material or heavy coating which may hinder video recording.
5. A change in position of the Product may lead to changes in camera angles. Adjust the camera angle and check the recorded image.
6. Product damage or power disconnection by major accident may disable video recording.
7. In case of an accident, remove the power jack and remove the SD memory card. The corresponding incident may have been stored as an erasable normal recording instead of an Event recording. Please check the recorded file.
8. Do not remove the SD memory card or turn the power off while data is stored to, or loaded or deleted from the SD memory card.
9. Check data stored in the SD memory card to see if the Product is operating properly. Format the SD memory card regularly.
10. Always use the recommended SD memory card to prevent data loss or product failure.
11. Do not dismantle or convert the SD memory card.
12. The battery level monitoring function may be turned off unexpectedly due to an abnormality of the car, battery or by accessories fitted to the car.

Product Features

This Product is a device (the black box) to be installed inside a car, for recording of sounds and views at the front of the car and inside the car to secure evidences of road accident, parking damage, theft or violence of passengers as well as to induce safe driving.

Optimum Image Quality
1.3 Mega pixel

Continuous Recording
Event Recording

Built in battery for data secure

SD/SDHC Flash Memory

Private PC software

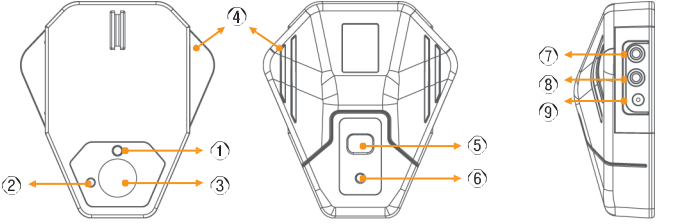
Free Voltage

Shock Detection
3D G-Sensor

Print out picture
convert to JPEG file

Emergency Recording Button

Components



No.	Name	Description
1	Inside LED	Inner side Red, Blue, Purple LED Steady & Flashing
2	illumination sensor LED	Recording sensitivity control by Automatically by Automatically Brightness sensor detected.
3	Camera	Vehicle's front side recording (1.3Mega CMOS)
4	SD Card slot	To save recorded data into a SD card
5	Emergency record Button	Driver Panic & Emergency recording S/W
6	Front LED	Front Blue LED Steady & Flashing
7	GPS Terminal	To receive satellite radio (global positioning information)
8	AV-out Terminal	To connect the AV cable
9	Power jack	To connect the external power port

Product Content

MBB-10 Main Body

User's Manual

SD Card reader

Window Mount&GPS

SD memory card

Quick Installation Guide

Installation components

Cigar jack

Options (sold separately)

DC fuse power cable (Optional Item)

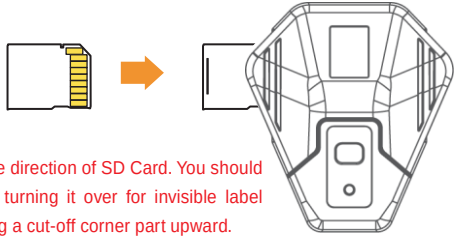
AV OUT cable

* The warranty period for the SD memory card is 6 months, and for all other parts is 1 month.
* Pictures of the parts may differ from the actual. Some parts may change in certain circumstances.

To Insert Card

Insert the SD card before supplying power. The cut corner of the card should face downward when inserting.

Lower the slot cover and insert the card to the end. (you will feel the card locking when fully inserted.)



Check the direction of SD Card. You should insert by turning it over for invisible label and facing a cut-off corner part upward.

Caution

Insert the card to the end to avoid card failure. The golden area (the connection area) on the card should not be touched by hand or foreign materials to avoid card damage. Do not use the card for any other application than its original purposes.
Some of the recommended SD cards may not be compatible if their (production) lots are not original.

Always use the recommended SD memory card!

If you require more memory than the SD card provided with the Product package, we recommend **Transcend** and **SanDisk**. For SD cards of 4G ~ 32G, please refer to the recommended list.

Compatible cards: 2G ~ 32G SD, SDHC, CLASS 6

Main Functions

Video recording

※ Insert a SD card, connect the power supply, and the front side recording will begin.
(Red color LED flashing ▶ beeper sound ▶ LED flashing(Inner: Purple, front: Blue)

✶ If the SD card is to be removed, wait until the lamp is completely turned off to avoid card failure.
In case of a car accident, turn the power off on the Product and remove the SD card for safe keeping.
(Otherwise, old data may be written off by new recordings.
Data containing the accident should be kept safely as evidence.)

Emergency Saving Switch

If emergency saving switch (REC button) is pressed, relevant video is saved as event and will not be deleted unless random deletion is done. The relevant file is saved as event file.

Installation on Mount (GPS Antenna)

Installation on Mount with a built-in GPS

Tighten connection bolts of main body and mount. Then, connect is GPS in slot at right upper part of main body.

DC Fuse power cable(Option)

(DC FUSE POWER CABLE)

Shock sensor sees collision while driving as main issue. Since shock sensor is weak during parking lot collision, compared with collision while driving, to supplement its weakness, there is a function, with which user can adjust sensor sensitivity. Enough SD card memory should be secured to save general recording files enough.

In case of connection to continuous power, shooting can be made continuously 24 hours. Battery monitoring function shuts off power prior to battery discharge. Since installation method varies depending upon the vehicle in case of installation on continuous power or A/S. check with professional engineer to see if there is no trouble on safety and function. This is required for safety and protection of consumer.

Power Consumption: 1.5W based on 12V

AV Out Function

(Only after perchasing AV CABLE)

AV CABLE (option sales)

Navigation Cable

Current screen can be seen at navigator (Monitor Output: PAL / NTSC compatible)
Audio Guide: Tti~ Dick Dick(Beeper sound)
After audio guide, take your hand off from the button after 3 seconds later.
If power is removed, AV Out Function is released.

Device Status Check (Check LED blinking display part)

Status	LED						Voice Message
	Rear				Front		
	Red		Blue		Blue		
	Steady	Flashing	Steady	Flashing	Steady	Flashing	
Power ON	●						Red LED inside is turned on.
Continuous Recording	●			●		●	Violet LED inside and Blue LED outside blink.
Event Recording	●		●		●		Violet LED inside and Blue LED outside are turned on.
SD Card Trouble		●		●		●	Violet LED inside and Blue LED outside blink fast.
Install Mode	●		●		●		Violet LED inside and Blue LED outside are turned on.

Status	Buzzer	Buzzer Sd.	Interval	Repetition
Power "on"	When power is authorized initially, one time for 0.5 seconds	0.5 sec.	Initial one time	None
Event Full	In case of data deletion by event is necessary	0.3 sec.	Two times with 0.5 sec. interval	Repetition 10 seconds each for 3 minutes
Device Trouble	No insertion or wrong insertion of SD card / Insufficient storage capacity / other errors	1 Sec.	5 Sec.	10 times per hour
Event Formation	When shock is detected and event is formed	0.1 Sec., 3 times	If "yes," one time	None

PC Software

※ **Recommended PC Specification**

CPU: Pentium 4/1 GHz or up Memory: 512 MB RAM or up OS : WINDOWS XP, VISTA(partial) HDD : 500MB or up support

PC Software Installation

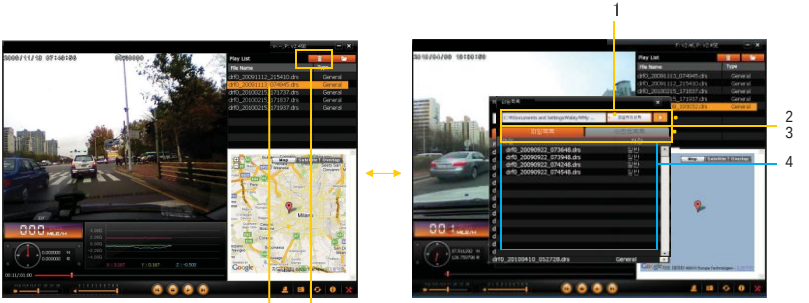
MBB-10 PC Software is provided
insert SD card file folder.

MBB-10 - InstallShield Wizard
Welcome to the InstallShield Wizard for CARPA-10
The InstallShield® Wizard will install CARPA-10 on your computer. To continue, click Next.
< Back
Next >
Cancel

③

Installation is complete.
The MBB-10 icon is created on the background screen on the PC

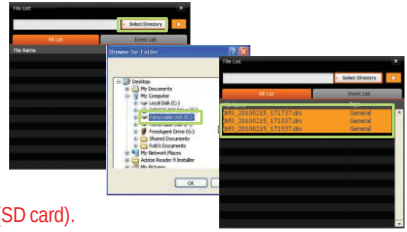
Playback List



- 1→View file location. / Select Directory
- 2→The selected files can be added to a Playlist.
- 3→View all files / Sort of Event files
- 4→If a file list exists, it is shown in the blue box area.
- The G-Sensor detected by the sensors located vertically, horizontally and on right and left, is converted to numbers to indicate driving direction, turning direction and size and direction of impact in an accident.
- To move to a previous or next file during playback of the selected file from the File List.
- To move to a previous or next file during playback of the selected file from the Event List.

To run the program

To select a file to playback



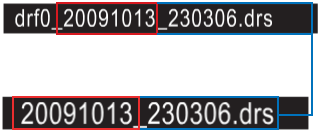
Select file location ▶ Select a mobile disk (SD card).

To open a file ▶ Select file location ▶ Select a mobile disk. ▶ Confirm ▶ Select a movie file to playback and click on the [▶] button.

The selected movie file is added to a Playback List. Select a movie file to playback and click on the [▶] button.

To identify type of recording files

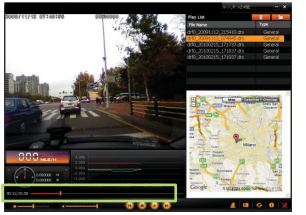
Files are saved at 1-minute intervals by hour and day for easy retrieval. Files are also designated with letter (General) for normal recording, (Event) for event (such as accident and impact) and (Button) for emergency outdoor recording by button, for easy search.



Normal recording (N): A normal video recording is saved by the unit of 1-minute. Files are sorted by date and hour for easy search. If the memory space is fully used, the oldest file is erased to provide space for new recordings.

A video recording of impact of accident is saved in the Event list.

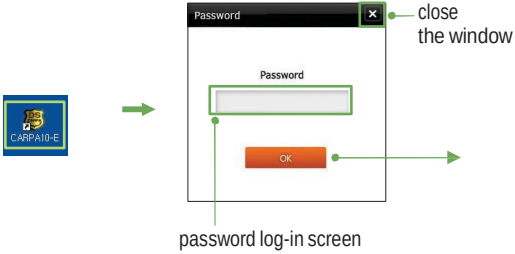
An external switch button is used to record an emergency event, and the file is saved as an Event file.



To view Event

Instead of viewing all files, only the Event files can be viewed as the files are marked with either (Event) or (Button) for easy and quick search

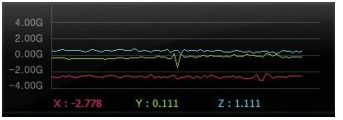
Program Security (ON/OFF)



In case that password is created at Setting, password log-in screen appears before the program begins.

Speed Display

G-sensor X,Y,Z information



Driving speed

The built-in G-sensor enables detection of impact, acceleration or braking to be automatically recorded and saved.
Triple axis (X,Y,Z), acceleration values and GPS data are saved.

Map

Overlap

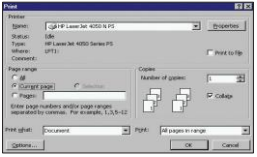
Compatible with Google Map
With maps (Google Map), satellite and superposition information, driving route information is provided.

Use of Google Map is recommended.
The 'Map View' function is only available when the Internet is connected.

File convert & others

Select the MBB-10 icon
to execute the program

Print



to print the screen
the instant printing function

Version Info

to view the software version

File Save

During playback, the file can be saved on a PC as well. / The file is converted to an mp4 file and saved.

File Capture

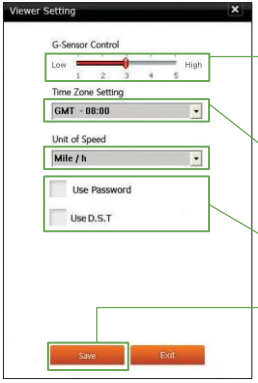
Screen Capture: to capture the current screen. The saved file is added to the hard disk.

Control of Playback speed and Volume

Control of Playback Speed: To control the speed to x6 slow, x4 slow, x2 slow, normal, x2 fast, 4x fast or 6x fast.

Volume Control: in 9 levels (including 'Mute') / Select level 1 for mute and level 9 for the highest volume.

Program Setup



Sensitivity Control Function:

Sensitivity is set up. The higher the number is, the more sensitive it is. 1. least sensitive, 5 most sensitive. Event may not occur depending upon sensitivity while on parking. Set up sensitivity properly by vehicle type and user.

Time Setup:

input faster than present time by one minute, and save at SD Memory card

Password Setup Function:

Set up video play program with password.

Save at SD Memory card

Firmware Update

Before Firmware Upgrade, format the SD memory card.

1. Remove the SD card from the Main Body and place it on a card reader.
2. Connect the card reader to the USB port on a PC.
3. Download the upgrade file from the MBB-100 website. (The downloadable file is in the compressed format. You will need to decompress the file first. Copy the file and paste it onto the SD memory card.)
4. Insert the SD card to the Product and connect the power supply for auto upgrade

Caution

Do not disconnect the cigar jack or turn off the ignition during upgrade. Do not remove the SD card during upgrade.

Product Specification

Particular	Power consumption	Weight	Size (LxWxH)	Operation temperature
Product	1.5w	93g	124 x 108 x 25	-20˚C~+70˚C

Camera	GPS	G-sensor	Storage
2Camera/ 1.3M Pixel CMOS digital sensor	Internal GPS Module	Internal 3D "G" sensor	SD memory card

Voice REC.	Event	Resolution	Power Supply
Internal MIC	Emergency Button, shock	640x480 / 24fps	DC 12V~24V (Cigar jack)

Trouble Shooting

Trouble	Trouble Shooting	Remarks
Power failure The Product is not turned on.	1. Check if the power cable at the rear of the Product is properly connected. 2. Check if the power fuse inside the fuse box in the car that connects between the car and the Product, is normal. (in case of constant power supply cable being in use) 3. Format the SD card before firmware upgrade.	If the trouble persists, please contact the Service Center.
Card failure Display: Purple & Blue LED Flashing fast	1. Check if the card is correctly inserted. 2. Check if the original or recommended card is in use. 3. Format the SD card before firmware upgrade.	If the trouble persists, please contact the Service Center.
Playback failure 1. When the MBB-10.exe is executed, the current screen disappears. 2. MBB-10 is open but Playback is disabled.	Start Windows ▶Enter 'regedit' ▶ Confirm▶GKEY_LOCAL_MACHINE ▶ SOFTWARE ▶dstelecom ▶MBB-10 ▶1.00.000 ▶ Delete 'config'. Close the file and execute the MBB-10 viewer. Check your PC specification. CPU: Pentium 4/1 GHz or higher HDD: 500MB or higher, Memory: 512 MB RAM or higher OS: Win98, ME, XP, Vista	If the trouble persists, please contact the Service Center.